

RESOURCE AND PATIENT MANAGEMENT SYSTEM

Laboratory Reference

(LR)

Addendum to User Manual

Version 5.2 Patch 1051 August 2022

Office of Information Technology Division of Information Resource Management

Table of Contents

1.0	Introduction1			
2.0	IHS La	b Version & Patch Report	2	
	2.1	LVP IHS Lab Version & Patch Report	2	
	2.2	IHS Lab Version & Patch Report for LR*5.2*1051	3	
3.0	LS Linl		4	
	31	I S Option Link Transaction Processor Status	4	
	3.2	Monitoring the Link Transaction Processor Status	. 4	
	3.3	Link Transaction Processor Status – HALTED	5	
	3.4	Restart Lab to PCC Transaction Processor	. 5	
4.0	LOINC	Update Version 2.70	7	
	4.1	VA VistA LOINC Updates	7	
	4.2	VA VistA LOINC Patch LR*5.2*452	7	
	4.3	VA VistA LOINC Patch LR*5.2*550	. 7	
5.0	State H	lealth Department Report (SHDR)	8	
	5.1	Add Patient Race and Ethnicity to The State Health Department Repor (SHDR)	t 8	
	5.2	BLRSHDRP Routine	8	
	5.3	Security Key BLRSHDRC	. 8	
	5.4	SHDR State Health Dept Report	8	
	5.5	Reportable Lab Tests Data Dictionary (90475)	9	
	5.5.1	Field .01 – TEST POINTER	10	
	0.0.Z	Field 04 - CONDITION	10	
	5.5.5	Field 1 – VALUE SET(SET) (multiple)	10	
	5.5.5	Field 2 – REPORTING TEXT	10	
	5.5.6	Field 4 – VALUE(TEXT) (multiple)	11	
	5.6	Reportable Lab Tests Set Up	11	
	5.6.1	Finding the Data Name	12	
	5.6.2	Reviewing the Data Names	13	
	5.6.3	Configuring the Lab Test File – Data Name (NUMERIC)	15	
	565	Configuring the Lab Test File – Data Name (SET OF CODES)	10	
	5.7	State Health Department Report – Report Example	19	
	5.7.1	HEMOGLOBIN A1C – SHDR Sample Report	20	
	5.7.2	RPR – SHDR Sample Report	21	
	5.7.3	ESTIMATED GFR – SHDR Sample Report	21	
6.0	In-Patie	ent Lab Orders – Lab Collect	23	
	6.1	Modified Routines – Lab Collect	23	
	6.2	Using Lab Collect	23	

Table of Contents

	6.2.1 6.2.2	Print Lab Collection List: Receiving AM Lab Collect Specimens:	23 26
7.0		3 TRANSACTION LOG – Add LOINC and IHS LOINC Codes to the	20
	7 1	Example: INO Inquire into the IHS I AB Transaction I og	30
8.0	Modifie	d Routines	35
	8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 8.10 8.11 8.12 8.13 8.14	BLRRLEDI LR7OF1 BLRSLTL1 LRORDST LR7OGMP BLR7OGMP LRXREF1 LRVER, LRVR, and LRVR1. BLRTN LRL2 LRL2 LR12 LR12 LR2 LR2 LR2 LR2 LR2 LR2 LR2 LR2 LR2 LR	35 35 35 35 35 35 35 35 35 35 35 36 36 36 36 36 36
9.0	REFER	RAL PATIENT (#67) File New Cross Reference	37
	9.1	Data Dictionary Listing	37
Gloss	ary		38
Acror	nym List		40
Conta	ct Infor	nation	41

1.0 Introduction

This document lists various additions/changes to the RPMS Lab package that were brought about by IHS Lab Patch LR*5.2*1051.

This guide provides IHS Laboratorians with descriptions of the changes and/or enhancements and other information.

2.0 IHS Lab Version & Patch Report

The Lab Version & Patch Report Option was added to the BLR IHS Lab Main Support Menu (BLRMENU). The report allows the Laboratorian to display the site's Lab Version number and latest patch.

2.1 LVP IHS Lab Version & Patch Report

The LVP option is available on the BLRMENU.

```
LR
      Laboratory DHCP Menu ...
  IHS Lab Main Support Menu
   LS
         Link Transaction Processor Status
   7421 Will restart the 7421 label routine if turned off.
   INO Inquire into the IHS LAB Transaction Log
   FLD Search Transactions for PCC LINK DISABLE Error
   RSN Requeue by Sequence Number
   RST Requeue Transaction by Sort Template
   CPT Enter/edit IHS Lab CPT File
       Find ALL PCC Link Errors from Lab
   FAL
   STP
         Stop/restart Lab to PCC Transaction Processor
   MSTR Enter/edit BLR MASTER CONTROL FILE
   POV
         Purpose of Visit Compliance Report
   6249 Display File 62.49 HL7 Segments
   BZY
         IHS Taskman Busy Device Rpt
   CCCD Create Creatinine Clearance Delta Check
   CDVC Edit BLR COLL DT PCC VISIT CREATION Parameter
   CGFR Create CKD-EPI Equation Delta Check
   CLR Clear BLR errors from error log
   CUM IHS CUMULATIVE MENU ...
   DADD Add Completed Date to Accession Tests
   EAPE Edit BLR EMERGENCY ALERT Parameter
   EDCC BLR CC DATA Parameter Edit
              Press 'RETURN' to continue, '^' to stop:
   EMGP Edit LAB HIGH URGENCY NOTIFICATION Mail Group
  ETP LA7 Message Queue Error Messages to Purgeable
IHSM IHS Lab Microbiology Du
         IHS Lab Microbiology Report
   ILUM
         IHS LOINC/UCUM MENU ...
   LABT Determine if Required RPMS Lab Options Tasked
   LOI IHS Lab Package LOINC Percentage Report
   LRAS Accession IHS Lab Microbiology Report
   LROS Order/test status by Order Number
   LTRR Laboratory Test (#60) File's Reference Ranges
   LVP IHS Lab Version & Patch Report
   MACC Mark Multiple Accessions as Not Performed
   MILO Micro Interim Report by Location
   MMR Lab Description Abbreviation Report
       Lab Tests Without LOINC Entries Report
   NLO
   ORDO
         'Open Lab Orders' Reports ...
   ORPH Remove Orphans from # 68
         BROWSER REPORT ON ORPHANS FROM # 68
   ORPR
   PAMG
         Edit IHS Lab Parameters and/or Mail Groups ...
   PDOC
         Patient Reminder Document
   POCA Edit BLR AGE DETAIL Parameter
   PURA Purge VA Alerts
```

Addendum to User Manual August 2022 IHS Lab Version & Patch Report

Press 'RETURN' to continue, '^' to stop: RBE Clear ALL BLR Errors from Error Log REFL Reference Lab Main Menu ... REPL Replace Lab Order/Test Status ... SF60 IHS Search File 60 SHDR State Health Dept Report TCCR Test Creatinine Clearance Logic TGFR Test CKD-EPI Equation Logic Count Accessioned Tests Using Lab Data File ... IHS Lab Ask-At-Order ...

Figure 2-1: Full display of BLR Menu and LVP Option

2.2 IHS Lab Version & Patch Report for LR*5.2*1051

When the LVP option is selected the report will look similar to the following:

```
DEMO HOSPITAL
Date: 07/27/22 IHS LAB Package Time:10:15 AM
Current VERSION & PATCH Report
IHS Lab Version 5.2
Latest IHS Lab Patch: LR*5.2*1051
Latest IHS Lab Patch Install Date/Time: JUL 09, 2022 6:39 PM
```

Figure 2-2: IHS Lab Version and Patch Report

3.0 LS Link Transaction Processor Status

The Link Transaction Processor Status Option was added to the BLR IHS Lab Main Support Menu (BLRMENU). This option allows the user to determine whether the processor that passes data from the Transaction Log to PCC is currently running and whether there are any delays in the transmission of data.

3.1 LS Option Link Transaction Processor Status

The LS option is available on the BLRMENU.

```
LR
     Laboratory DHCP Menu ...
  IHS Lab Main Support Menu
         Link Transaction Processor Status
  LS
  7421
        Will restart the 7421 label routine if turned off.
  INQ
         Inquire into the IHS LAB Transaction Log
  CPT
         Enter/edit IHS Lab CPT File
   STP
         Stop/restart Lab to PCC Transaction Processor
   PAMG
         Edit IHS Lab Parameters and/or Mail Groups ...
  LVP
         IHS Lab Version & Patch Report
```

Figure 3-1: Shorten display of BLR Menu – LS Option for PCC LINKER

3.2 Monitoring the Link Transaction Processor Status

Installation of Laboratory Patches often requires the Processor to be turned off. To assure the PCC Linker was turned ON, post installation of the patch, Laboratorians should check the PCC Linker using the LS Link Transaction Processor Status.

The Currently Processing Day _____ should match the current date.

The LS option is available on the BLRMENU.

DEMO HOSPITAL Processor Status JUL 17, 2022@10:40:05					
Cu	rrently	processing	day JUL 17,	2022	
Ev	vent	Entry # in Queue	==== IHS I Sequence	ab Transactio # Date	on ==== Time
Last Entry Assigned	28	193	79 , 770	07/17/2022	10:03
Last Entry Processed	28	193	79 , 770	07/17/2022	10:03

Figure 3-2: Processor Status Example

Addendum to User Manual August 2022

3.3 Link Transaction Processor Status – HALTED

Installation of Laboratory Patches often requires the Processor to be turned off. Occasionally the PCC Linker will not be turned back to ON after the patch was installed.

The Processor Status displays **Halted by user** when the PCC Linker was not restarted. Picture below provides an example of the Processor Status showing the Halted by user, notice the Currently Processing Day does not match the Current Date.

DEMO HOSPITAL Processor Status AUG 17, 2020@12:18:30					
	Currentl	y pro	cessing day	AUG 17, 2020	
	Even	t	Entry # in Queue	==== IHS Lab Sequence #	Transaction ==== Date Time
Last Entry Ass 23:02	igned	10	1	2,358	08/17/2020
Last Entry Pro 23:02 Halted by	cessed user	10	1	2,358	08/17/2020

Figure 3-3: Example of HALTED Lab Processor

3.4 Restart Lab to PCC Transaction Processor

Transaction Processor. To restart the PCC Linker, select the **STP Option**, type your Institution name for the "BLR MASTER CONTROL SITE" prompt, and type **NO** for the "STOP PROCESSOR" prompt.

Example of restarting the PCC Linker is as follows:

```
Laboratory DHCP Menu ...
LR
  IHS Lab Main Support Menu
         Link Transaction Processor Status
   LS
   7421 Will restart the 7421 label routine if turned off.
   INQ Inquire into the IHS LAB Transaction Log
  CPT Enter/edit IHS Lab CPT File
STP Stop/restart
         Stop/restart Lab to PCC Transaction Processor
   PAMG
        Edit IHS Lab Parameters and/or Mail Groups ...
   LVP
          IHS Lab Version & Patch Report
   POCA Edit BLR AGE DETAIL Parameter
Select IHS Lab Main Support Menu Option: STP Stop/restart Lab to
 PCC Transaction Processor
Select BLR MASTER CONTROL SITE:
                                   DEMO HOSPITAL
```

```
STOP PROCESSOR: YES// NO
```

Figure 3-4: Shorten display of BLR Menu – Restart PCC Linker

It is recommended to check, again, the status of the Link Transaction Processor Status after restarting the PCC Linker.

4.0 LOINC Update Version 2.70

4.1 VA VistA LOINC Updates

IHS RPMS Lab Patch LR*5.2*1051 brings in two (2) VA VistA Lab Patches that will update the LOINC files to LOINC Version 2.70.

4.2 VA VistA LOINC Patch LR*5.2*452

Laboratory Logical Observation Identifiers Names and Codes (LOINC) are intended to incorporate efficiencies in the Department of Veterans to the LOINC in use. The LAB LOINC file (#95.3) currently contains LOINC version 2.68 which was released in 2020. The goal of this patch is to update the LAB LOINC file (#95.3) and related files to version 2.69.

Files Updated in this patch:

- 95.3 LAB LOINC
- 95.31 LAB LOINC COMPONENT
- 64 WKLD CODE
- 64.061 LAB ELECTRONIC CODES
- 64.2 WKLD SUFFIX CODES

4.3 VA VistA LOINC Patch LR*5.2*550

Laboratory Logical Observation Identifiers Names and Codes (LOINC) are intended to incorporate efficiencies in the Department of Veterans to the LOINC in use. The LAB LOINC file (#95.3) currently contains LOINC version 2.69 which was released in 2021. The goal of this patch is to update the LAB LOINC file (#95.3) and related files to version 2.70.

Files Updated in this patch:

- 95.3 LAB LOINC
- 95.31 LAB LOINC COMPONENT
- 64 WKLD CODE
- 64.061 LAB ELECTRONIC CODES
- 64.2 WKLD SUFFIX CODES

5.0 State Health Department Report (SHDR)

5.1 Add Patient Race and Ethnicity to The State Health Department Report (SHDR)

The State Health Department Report (SHDR), also known as Non-Microbial State Health Department Report, provides the ability to allow non-microbial tests to be sent in a standard report format to state health departments, based upon criteria determined by the state. The State Health Department Report was modified to include the RACE and ETHNICITY to the patient demographics section of the report.

```
Reporting Test: Hemoglobin AlC

DEMO, PATIENT 114649 02/25/2000 F CH 0728

19 BLOOD 07/28/22 07/28/22 RADON,NICHOLAS M JR

1555559833 P.O. BOX 1038 ALB NEW MEXICO 87119 LAB

Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: NOT HISPANIC OR LATINO

Result: 10

Current COMMUNITY: PARKER
```

Figure 5-1: State Health Department Report Patient Example. Race and Ethnicity bolded

5.2 BLRSHDRP Routine

The BLRSHDRP routine was written to display the RACE and ETHNICITY information.

5.3 Security Key BLRSHDRC

The State Health Department Report menu can only be viewed and accessed by users with the new security key BLRSHDRC.

5.4 SHDR State Health Dept Report

The SHDR option is available on the BLRMENU.

```
LR
     Laboratory DHCP Menu ...
 BLR
      IHS Lab Main Support Menu
         Link Transaction Processor Status
  LS
   INQ
         Inquire into the IHS LAB Transaction Log
  PC41 Will restart the label routine if turned off.
         Search Transactions for PCC LINK DISABLE Error
  FLD
  RSN Requeue by Sequence Number
  RST Requeue Transaction by Sort Template
  CPT Enter/edit IHS Lab CPT File
  FAL Find ALL PCC Link Errors from Lab
  STP Stop/restart Lab to PCC Transaction Processor
```

Addendum to User Manual August 2022 State Health Department Report (SHDR)

MSTR Enter/edit BLR MASTER CONTROL FILE POV Purpose of Visit Compliance Report 6249 Display File 62.49 HL7 Segments BB Blood bank ...BZY RPMS Taskman Busy Device Rpt CCCD Create Creatinine Clearance Delta Check CDVC Edit BLR COLL DT PCC VISIT CREATION Parameter CGFR Create CKD-EPI Equation Delta Check CLR CUM Clear BLR errors from error log IHS CUMULATIVE MENU ... DADD Add Completed Date to Accession Tests DCL DISPLAY BUILDING COLLECTION LIST EAPE Edit BLR EMERGENCY ALERT Parameter Press 'RETURN' to continue, '^' to stop: EDCC BLR CC DATA Parameter Edit EMGP Edit LAB HIGH URGENCY NOTIFICATION Mail Group ERRT Error Trap Reporting ETP LA7 Message Queue Error Messages to Purgeable IHSM RPMS Lab Microbiology Report ILUM IHS LOINC/UCUM MENU ... LABT Determine if Required RPMS Lab Options Tasked IHS Lab Package LOINC Percentage Report LOI LRAS Accession IHS Lab Microbiology Report LROS Order/test status by Order Number LTRR Laboratory Test (#60) File's Reference Ranges LVP RPMS Lab Version & Patch Report MACC Mark Multiple Accessions as Not Performed MILO Micro Interim Report by Location MMR Lab Description Abbreviation Report NLO Lab Tests Without LOINC Entries Report ORDO 'Open Lab Orders' Reports ... ORPH Remove Orphans from # 68 ORPR BROWSER REPORT ON ORPHANS FROM # 68 PAMG Edit RPMS Lab Parameters and/or Mail Groups ... PDOC Patient Reminder Document POCA Edit BLR AGE DETAIL Parameter Press 'RETURN' to continue, '^' to stop: RBE Clear ALL BLR Errors from Error Log REFL Reference Lab Main Menu ... REPL Replace Lab Order/Test Status Report ... SF60 IHS Search File 60 SHDR State Health Dept Report TCCR Test Creatinine Clearance Logic TGFR Test CKD-EPI Equation Logic VAPU Purge All VA Alerts Count Accessioned Tests Using Lab Data File ... IHS Lab Ask-At-Order ...



5.5 Reportable Lab Tests Data Dictionary (90475)

The Health Department Report capability for non-microbial tests is driven via entries in FileMan compliant data dictionary, REPORTABLE LAB TESTS, file 90475. The REPORTABLE LAB TESTS (90475) data dictionary is the "driver" for the Non-Microbial State Health Department report. The entries in the data dictionary triggers which test results are reported. The fields in the file are listed in the following sections.

5.5.1 Field .01 – TEST POINTER

The TEST POINTER field is a pointer to the Laboratory Test file (60). It determines what test will be selected for potential reporting.

5.5.2 Field .03 – VALUE(NUMERIC)

The VALUE(NUMERIC) field is used if the result from the Laboratory Test will be numeric. This is tied to the next field, CONDITION, in that the VALUE(NUMERIC) is checked against the Lab results using the VALUE(NUMERIC) entry combined with the entry in the Condition field.

Users may add numbers between -10000000 and 100000000, 9 Decimal Digits, as the possible numeric value.

5.5.3 Field .04 – CONDITION

The CONDITION field is used to determine if the Laboratory Test result meets the criteria to be included on the report if and only if there is a value in the VALUE(NUMERIC) field.

There are three (3) possible selections:

- 4 LESS THAN
- 5 EQUALS
- 6 GREATER THAN

5.5.4 Field 1 – VALUE SET(SET) (multiple)

The VALUE(SET) field is used if the Laboratory Test has a set of values that have been defined. Since it is a multiple, there can be as many values as needed.

Users may enter a new VALUE(SET), enter a code value representing a positive value.

5.5.5 Field 2 – REPORTING TEXT

The REPORTING TEXT field is an optional field that can rename the lab test name from the Laboratory Test file (60) to print on the State Health Department Report (SHDR). Using this field within this file, it will not change the lab test name in the Laboratory Test file (60).

5.5.6 Field 4 – VALUE(TEXT) (multiple)

The VALUE(TEXT) field is used if the Laboratory Test returns text as values. Because the field is a multiple, there are two (2) sub-fields, VALUE(TEXT) and CONDITION:

5.5.6.1 .01 VALUE(TEXT)

The VALUE(TEXT) field is used if the result from the test will be Free Texted Result. This is tied to the next field, CONDITION, in that the VALUE(TEXT) is checked against the Laboratory Test results using the VALUE(TEXT) entry combined with the entry in the CONDITION field.

5.5.6.2 .02 CONDITION

The CONDITION field is used to determine if the Laboratory Test result meets the criteria to be included on the report if and only if there is a value in the VALUE(TEXT) field.

There are four (4) possible selections:

- 2 CONTAINS
- 4 LESS THAN
- 5 EQUALS
- 6 GREATER THAN

5.6 Reportable Lab Tests Set Up

This section provides instructions for setting up tables for the following reports that may be required by state health departments:

- RPR
- Hemoglobin A1C
- Estimated GFR

Note: Contact your state health department to determine which reports are required and the parameters for those tests.

This section is organized into three (3) tasks:

- Finding the Data Name
- Reviewing the Data Name
- Setting up the reportable Laboratory Test file

5.6.1 Finding the Data Name

The first task in setting up the tables is finding the Data Name. The following procedure provides instructions.

To find the Data Name:

- 1. Go to VA FileMan.
- 2. Use Enter or Edit File Entries.
- 3. Enter 60 for LABORATORY TEST.
- 4. Type DATA NAME at the "EDIT WHICH FIELD: ALL" prompt.
- 5. Press Enter at the "THEN EDIT FIELD:" prompt.
- 6. Type **RPR** at the "Select LABORATORY TEST NAME:" prompt.
- 7. Type **_HEMOGLOBIN AIC** at the "Select LABORATORY TEST NAME:" prompt.
- 8. Press Enter.
- 9. Type **ESTIMATED GFR (CKD-EPI)** at the "Select LABORATORY TEST NAME:" prompt.
- 10. Press Enter.

```
VA FILEMAN
         Enter or Edit File Entries
         Print File Entries
         Search File Entries
         Modify File Attributes
         Inquire to File Entries
         Utility Functions ...
         Data Dictionary Utilities ...
         Transfer Entries
         Other Options ...
Select VA FileMan Option: ENter or Edit File Entries
INPUT TO WHAT FILE: LABORATORY TEST//
EDIT WHICH FIELD: ALL// DATA NAME
THEN EDIT FIELD:
Select LABORATORY TEST NAME: RPR
    1 RPR RPR
    2 RPR RPR w/rfx (R)
CHOOSE 1-2: 1 RPR
DATA NAME: RPR//
```

Addendum to User Manual August 2022

State Health Department Report (SHDR)

Select LABORATORY TEST NAME: A1C
 1 A1C HEMOGLOBIN A1C
 2 A1C HA1C + EAG (OIT)
 3 A1C HGB A1c (R)
CHOOSE 1-3: 1 HEMOGLOBIN A1C
DATA NAME: HA1C//
Select LABORATORY TEST NAME: EST
 1 EST EST GFR
 2 EST ESTIMATED GFR
 3 ESTIMATED AVERAGE GLUCOSE
 4 ESTIMATED GFR (CKD-EPI)
 5 ESTRONE (SQL 9087)
CHOOSE 1-5: 4 ESTIMATED GFR (CKD-EPI)
DATA NAME: CKD EPI 112016//
Select LABORATORY TEST NAME:

Figure 5-3: Finding the Data Name

You have captured the Data Name names for the three tests: **RPR**, _HEMOGLOBIN AIC, and ESTIMATED GFR (CKD-EPI). The next step is to review these Data Names.

5.6.2 Reviewing the Data Names

The second task in setting up the tables is reviewing the Data Names. All laboratory patient results are stored in the LAB DATA file and the type of laboratory results (NUMERIC, SET OF CODES, FREE TEXT) being stored is directly related to the Data Name configuration.

To capture accurate laboratory results to report on the State Health Department Report, the Data Name of Lab Test files need to be reviewed. The following procedure provides instructions.

To review the Data Name:

- 1. Go to Laboratory DHCP menu.
- 2. Select **Supervisor** menu.
- 3. Select LAB LIAISON menu.
- 4. Select **MOD** for Modify an existing Data Name. This option allows you to modify, however you will NOT modify the Data Name, only view the Data Name configuration.
- 5. Type **RPR** at the "Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD" prompt.
- 6. Notice the type of Data Name for this lab test is **SET OF CODES** type.
- 7. Type **NO** at the "Do you wish to modify this data name?" prompt.

State Health Department Report (SHDR)

8. Press Enter.

```
Select Lab liaison menu Option: MOD
                                  Modify an existing data name
This option allows modifying an existing data name.
Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD: RPR
       RPR
    1
    2 RPR, QUANTITATIVE
    3 RPR, QUAL
CHOOSE 1-3: 1 RPR
Data Name: RPR
                Subfield #: 2907725 Type: SET OF CODES
R - REACTIVE
  - NON REACTIVE
Ν
Do you wish to modify this data name? No//
                                          (No)
```

Figure 5-4: Reviewing the Data Name

- 9. Select **MOD** for Modify an existing Data Name.
- 10. Type **HA1C** at the "Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD" prompt.
- 11. Notice the type of Data Name for this lab test is **NUMERIC** type.
- 12. Type NO at the "Do you wish to modify this data name?" prompt.
- 13. Press Enter.

```
Select Lab liaison menu Option: MOD Modify an existing data name
This option allows modifying an existing data name.
Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD: HA1C
Data Name: HA1C Subfield #: 2907621 Type: NUMERIC
Input Transform: S Q9="5.0,18.9,1" D ^LRNUM
Minimum value: 5.0
Maximum value: 18.9
Maximum # decimal digits: 1
Do you wish to modify this data name? No//
```

Figure 5-5: Reviewing the Data Name

- 14. Select MOD for Modify an existing Data Name.
- 15. Type **CKD EPI 112016** at the "Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD" prompt.
- 16. Notice the type of Data Name for this lab test is **FREE TEXT** type.
- 17. Type **NO** at the "Do you wish to modify this data name?" prompt.

18. Press Enter.

```
Select Lab liaison menu Option: MOD Modify an existing data name
This option allows modifying an existing data name.
Select CHEM, HEM, TOX, RIA, SER, etc. SUB-FIELD: CKD
1 CKD EPI 112016
2 CDK EST GFR
CHOOSE 1-2: 1 CKD EPI 112016
Data Name: CKD EPI 112016 Subfield #: 2907672 Type: FREE TEXT
Input Transform: K:$L(X)>6!($L(X)<1) X
Minimum length: 1
Maximum length: 6
Do you wish to modify this data name? No//
```

Figure 5-6: Reviewing the Data Name

You have reviewed the parameters for the three tests: **RPR**, _**HEMOGLOBIN** A1C, and **ESTIMATED GFR** (**CKD-EPI**). The next step is to configure the reportable lab test file.

5.6.3 Configuring the Lab Test File – Data Name (NUMERIC)

The final task in setting up the tables is configuring the Laboratory Test for the STATE HEALTH DEPARTMENT REPORT using the FileMan file named REPORTABLE LAB TESTS file.

The following example provides the data input for the Laboratory Test named **HEMOGLOBIN A1C**, it is an atomic result-able laboratory test, and may be included in a panel Laboratory Test named HA1C + EAG, for example.

The Data Name named **HA1C** was using the **NUMERIC** type.

Add the Laboratory Test to the REPORTABLE LAB TEST file, add the values to the VALUE(NUMERIC) field for the reportable lab result value, and add to the CONDITION field to capture the numeric value as GREATER THAN.

Steps to configure the STATE HEALTH DEPARTMENT REPORT for Laboratory Test named _HEMOGLOBIN A1C with Data Name using NUMERIC type:

- 1. Go to VA FileMan.
- 2. Use Enter or Edit File Entries.
- 3. Type **REPORTABLE LAB TESTS**.
- 4. Press Enter at the "THEN EDIT FIELD:" prompt.

- 5. Type **_HEMOGLOBIN AIC** at the "Select REPORTABLE LAB TESTS TEST POINTER:" prompt.
- 6. Type **YES** at the "Are you adding '_HEMOGLOBIN A1C' as a new REPORTABLE LAB TESTS?:" prompt.
- 7. Enter 7 at the "VALUE(NUMERIC):" prompt.
- 8. Enter GREATER THAN at the "CONDITION:" prompt
- 9. No entry for "VALUE(SET):" prompt.
- 10. Type **Hemoglobin A1c** at the "REPORTING TEXT:" prompt for the lab test name to print on SHDR report- Optional.
- 11. No entry for "VALUE(TEXT):" prompt.
- 12. Press Enter.

```
Select VA FileMan Option: ENter or Edit File Entries
INPUT TO WHAT FILE: REPORTABLE LAB TESTS//
EDIT WHICH FIELD: ALL//
Select REPORTABLE LAB TESTS TEST POINTER: Are you adding '_HEMOGLOBIN A1C'
as a new REPORTABLE LAB TESTS (the 7TH)? No// Y (Yes)
VALUE(NUMERIC): 7//
CONDITION: GREATER THAN//
Select VALUE(SET):
REPORTING TEXT: Hemoglobin A1C//
Select VALUE(TEXT):
Select REPORTABLE LAB TESTS TEST POINTER:
```

Figure 5-7: Configure the REPORTABLE LAB TESTS report

5.6.4 Configuring the Lab Test File – Data Name (SET OF CODES)

The final task in setting up the tables is configuring the Laboratory Test for the STATE HEALTH DEPARTMENT REPORT using the FileMan file named REPORTABLE LAB TESTS file.

The following example provides the data input for the Laboratory Test named RPR, it is an atomic result-able laboratory test and is not part of a panel Laboratory Test.

The Data Name named RPR was using the SET OF CODES type.

Add the Laboratory Test to the REPORTABLE LAB TEST file and add the Set Of Codes values to the VALUE(SET) field for the reportable lab result value.

Steps to configure the STATE HEALTH DEPARTMENT REPORT for Laboratory Test named RPR with Data Name using SET OF CODES type:

- 1. Go to VA FileMan.
- 2. Use Enter or Edit File Entries.
- 3. Type **REPORTABLE LAB TESTS**.
- 4. Press Enter at the "THEN EDIT FIELD:" prompt.
- 5. Type **RPR** at the "Select REPORTABLE LAB TESTS TEST POINTER:" prompt.
- 6. Type **YES** at the "Are you adding 'RPR' as a new REPORTABLE LAB TESTS?" prompt.
- 7. No entry for "VALUE(NUMERIC):" prompt.
- 8. No entry for "CONDITION:" prompt.
- 9. Enter **R**, **r**, **REACTIVE** at the "VALUE(SET):" prompt.
- 10. No entry for "REPORTING TEXT:" prompt. This field entry is optional.
- 11. No entry for "VALUE(TEXT):" prompt.
- 12. Press Enter.

```
Select VA FileMan Option: ENter or Edit File Entries
INPUT TO WHAT FILE: REPORTABLE LAB TESTS//
EDIT WHICH FIELD: ALL//
Select REPORTABLE LAB TESTS TEST POINTER: Are you adding 'RPR' as a new
REPORTABLE LAB TESTS (the 8TH)? No// Y
                                       (Yes)
VALUE (NUMERIC):
CONDITION:
Select VALUE(SET): REACTIVE
 Are you adding 'REACTIVE' as a new VALUE(SET) (the 1ST for this
REPORTABLE LAB
TESTS)? No// Y (Yes)
Select VALUE(SET): "R"
 Are you adding 'R' as a new VALUE(SET) (the 2ND for this REPORTABLE LAB
TESTS)? No// Y (Yes)
Select VALUE(SET): "r"
 Are you adding 'r' as a new VALUE(SET) (the 3RD for this REPORTABLE LAB
TESTS)? No// Y
                 (Yes)
Select VALUE(SET):
REPORTING TEXT:
Select VALUE(TEXT):
```

Addendum to User Manual August 2022 State Health Department Report (SHDR)

Select REPORTABLE LAB TESTS TEST POINTER:

Figure 5-8: Configure the REPORTABLE LAB TESTS report

5.6.5 Configuring the Lab Test File – Data Name (FREE TEXT)

The final task in setting up the tables is configuring the Laboratory Test for the STATE HEALTH DEPARTMENT REPORT using the FileMan file named REPORTABLE LAB TESTS file.

The following example provides the data input for the Laboratory Test named ESTIMATED GFR (CKD-EPI), it is an atomic result-able laboratory test, and it is included in multiple panels, such as Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), and Renal Panel.

The Data Name named CKD EPI 112016 was using the FREE TEXT type.

Add the Laboratory Test to the REPORTABLE LAB TEST file and add the Free Text values to the VALUE(TEXT) field for the reportable lab result value.

Steps to configure the STATE HEALTH DEPARTMENT REPORT for Laboratory Test named ESTIMATED GFR (CKD-EPI) with Data Name using FREE TEXT type:

- 1. Go to VA FileMan.
- 2. Use Enter or Edit File Entries.
- 3. Type **REPORTABLE LAB TESTS**.
- 4. Press Enter at the "THEN EDIT FIELD:" prompt.
- 5. Type **ESTIMATED GFR (CKD-GFR)** at the "Select REPORTABLE LAB TESTS TEST POINTER:" prompt.
- 6. Type **Yes** at the "Are you adding 'ESTIMATED GFR (CKD-EPI)' as a new REPORTABLE LAB TESTS?:" prompt.
- 7. No entry for "VALUE(NUMERIC):" prompt.
- 8. No entry for "CONDITION:" prompt
- 9. No entry for "VALUE(SET):" prompt.
- 10. No entry for "REPORTING TEXT:" prompt. This field entry is optional.
- 11. Enter **29** for "VALUE(TEXT):" prompt.
- 12. Enter LESS THAN for the "CONDITION:" prompt.

13. Press Enter.

```
Select VA FileMan Option: ENter or Edit File Entries

INPUT TO WHAT FILE: REPORTABLE LAB TESTS//

EDIT WHICH FIELD: ALL//

Select REPORTABLE LAB TESTS TEST POINTER: Are you adding 'ESTIMATED GFR

(CKD-EPI)' as a new REPORTABLE LAB TESTS (the 9TH)? No// Y (Yes)

VALUE (NUMERIC):

CONDITION:

Select VALUE (SET):

REPORTING TEXT:

Select VALUE (TEXT): 60

Are you adding '60' as a new VALUE (TEXT) (the 1ST for this REPORTABLE LAB

TESTS)? No// Y (Yes)

CONDITION: LESS LESS THAN

Select VALUE (TEXT):

Select REPORTABLE LAB TESTS TEST POINTER:
```

Figure 5-9: Configure the REPORTABLE LAB TESTS report

5.7 State Health Department Report – Report Example

The State Health Department Report (SHDR), also known as Non-Microbial State Health Department Report, the report was modified to include the RACE and ETHNICITY to the patient demographics section of the report.

To generate the State Health Department Report, use the SHDR menu option from the BLR IHS Lab Main Support Menu.

Follow the steps below to generate a report using SHDR option:

```
LR Laboratory DHCP Menu ...
BLR IHS Lab Main Support Menu
SHDR State Health Dept Report
Select INSTITUTION site name
Enter Start Date
Enter End Date
Select DEVICE PRINTER to print
```

Default Site/Address for Report is the name and address of the INSTITUTION selected. If there are multi-divisions at your facility, please select the appropriate facility name to generate the SHDR report.

```
Default Site/Address for Report:

DEMO HOSPITAL

90001 1ST AVE CORNER OF O'MALLEY

ALBUQUERQUE FE, NM 87000

Use Site DEMO HOSPITAL as Report Header? YES// NO

Select INSTITUTION NAME: 2021 DEMO HOSPITAL (INST)// DEMO CLINIC
```

Addendum to User Manual August 2022

State Health Department Report (SHDR)

Lookup: NAME							
1	DEMO	CLINIC-1	WEST	ALBUQUERQUE	02	NM	8992A
2	DEMO	CLINIC-2	EAST	ALBUQUERQUE	06	MD	8992E
CHOOSE	1-2:						

Figure 5-10: Site/Address for SHDR Report

5.7.1 HEMOGLOBIN A1C – SHDR Sample Report

The following report is an example of a non-microbial state health department report. Remember when printing these reports to print to a 132 character printer.

NM HEALTH DEPARTMENT REPORT DEMO HOSPITAL 90001 1ST AVE CORNER OF O'MALLEY, ALBUQUERQUE, NM 87000 From 07/27/22 to 07/28/22 **** CONFIDENTIAL ****** Printed: 07/28/22 Page: 1
Name ID# DOB Sex Lab # Sample Col Dt Cpl Dt Provider Phone # Address Location
Reporting Test: Hemoglobin A1C
DEMO,ALISTER LANE 124625 05/20/1980 M CH 0728 16 BLOOD 07/28/22 07/28/22 RADON,NICHOLAS M JR 555-555-5994 PO BOX 1302 ALB NEW MEXICO 87119 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: Result: 15 Current COMMUNITY: KINGMAN
DEMO,ASHLEY 114649 02/25/2000 F CH 0728 19 BLOOD 07/28/22 07/28/22 RADON,NICHOLAS M JR 1555559833 P.O. BOX 1038 ALB NEW MEXICO 87119 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: NOT HISPANIC OR LATINO Result: 10 Current COMMUNITY: PARKER
DEMO,DEJON 115569 02/01/1949 M CH 0728 20 BLOOD 07/28/22 07/28/22 ROMANCITO,KAREN 555-555-7538 P.O. BOX 1131 OKLAHOMA CITY OKLAHOMA 74852 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: NOT HISPANIC OR LATINO Result: 9 Current COMMUNITY: SPEARFISH
DEMO,AMENDMENT ONE 124221 04/19/1954 F CH 0728 17 BLOOD 07/28/22 07/28/22 RADON,NICHOLAS M JR 555-555-4287 46545 VERDOGORD ALB NEW MEXICO 87119 LAB Race: WHITE Result: 10 Current COMMUNITY: PHOENIX
DEMO,AMENDMENT TWO 112025 05/22/1980 M CH 0728 18 BLOOD 07/28/22 07/28/22 RADON,NICHOLAS M JR 555-555-6579 PO BOX 2803 ALB NEW MEXICO 87119 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: NOT HISPANIC OR LATINO Result: 13 Current COMMUNITY: PARKER
Medical Technologist Date

Figure 5-11: State Health Department Report Patient Example.

Addendum to User Manual August 2022

5.7.2 RPR – SHDR Sample Report

The following report is an example of a non-microbial state health department report. Remember when printing these reports to print to a 132 character printer.

NM HEALTH DEPARTMENT REPORT DEMO HOSPITAL 90001 1ST AVE CORNER OF O'MALLEY, ALBUQUERQUE, NM 87000

 From 07/27/22 to 07/28/22
 ****** CONFIDENTIAL *****
 Printed: 07/28/22
 Page: 1

 Name
 ID#
 DOB
 Sex Lab #
 Sample
 Col Dt
 Cpl Dt
 Provider

 Phone #
 Address
 Location

 _____ Reporting Test: RPR DEMO,ALISTER LANE 124625 05/20/1980 M CH 0728 11 SERUM 07/28/22 07/28/22 DON,NICHOLAS M JR 555-555-5994 PO BOX 1302 ALB NEW MEXICO 87119 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: RADON, NICHOLAS M JR Result: REACTIVE Current COMMUNITY: KINGMAN DEMO,ASHLEY 114649 02/25/2000 F CH 0728 14 SERUM 07/28/22 07/28/22 RADON,NICHOLAS M JR 15555559833 P.O. BOX 1038 ALB NEW MEXICO 87119 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: NOT HISPANIC OR LATINO Result: REACTIVE Current COMMUNITY: PARKER DEMO,AMENDMENT ONE 124221 04/19/1954 F CH 0728 12 SERUM 07/28/22 07/28/22 MO, AMENDMENT ONE 124221 S.... DON, NICHOLAS M JR 555-555-4287 46545 VERDOGORD ALB NEW MEXICO 87119 LAB Ethnicity: NOT HISPANIC OR LATINO RADON,NICHOLAS M JR Result: REACTIVE Current COMMUNITY: PHOENIX DEMO, AMENDMENT TWO 112025 05/22/1980 M CH 0728 13 SERUM 07/28/22 07/28/22 RADON, NICHOLAS M JR ADON,NICHOLAS M JR 555-555-6579 PO BOX 2803 ALB NEW MEXICO 87119 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: NOT HISPANIC OR LATINO Result: REACTIVE Current COMMUNITY: PARKER HAVATONE,MARLENE 109064 05/06/1932 F CH 0728 15 SERUM 07/28/22 07/28/22 DON,NICHOLAS M JR 555-555-9593 P.O BOX 1970 ALB NEW MEXICO 87119 LAB Race: AMERICAN INDIAN OR ALASKA NATIVE Ethnicity: RADON, NICHOLAS M JR Result: REACTIVE Current COMMUNITY: PEACH SPRGS Medical Technologist Date

Figure 5-12: State Health Department Report Patient Example

5.7.3 ESTIMATED GFR – SHDR Sample Report

The following report is an example of a non-microbial state health department report. Remember when printing these reports to print to a 132 character printer.

NM HEALTH DEPARTMENT REPORT DEMO HOSPITAL 90001 1ST AVE CORNER OF O'MALLEY, ALBUQUERQUE, NM 87000

Addendum to User Manual August 2022

State Health Department Report (SHDR)

From 07/27/22 to 07/28/22 ****** CONFIDENTIAL ***** Printed: 07/28/22 Page: 1				
Name ID# DOB Phone # Ad	Sex Lab # ddress	Sample	Col Dt Cpl	Dt Provider Location
Reporting Test: ESTIMATED GFR	(CKD-EPI)			
DEMO, ALISTER LANE	124625 05/20/1980	M CH 0728	7 SERUM	07/28/22
555-555-5994 87119 LAB	PO BOX 1302	A	LB	NEW MEXICO
Race: AMERICAN INDIAN OR Result: 25.48	ALASKA NATIVE	Ethnicity:		
Current COMMONITY: KING	MAN			
DEMO,ASHLEY 07/28/22 RADON,NICHOLAS M JR	114649 02/25/2000	F CH 0728	8 SERUM	07/28/22
15555559833 87119 LAB	P.O. BOX 1038	A	LB	NEW MEXICO
Race: AMERICAN INDIAN OR Result: 28.96	ALASKA NATIVE	Ethnicity:	NOT HISPANIC	OR LATINO
Current COMMUNITY: PARK	ER			
DEMO,AMENDMENT ONE 07/28/22 RADON,NICHOLAS M JR	124221 04/19/1954	F CH 0728	6 SERUM	07/28/22
555-555-4287 87119 LAB	46545 VERDOGORD	A	LB	NEW MEXICO
Race: WHITE Result: 27.68	NTV	Ethnicity:	NOT HISPANIC	OR LATINO
current COMMONITY: PHOE	NIA			
Medical Technologist		Date		

Figure 5-13: State Health Department Report Patient Example

6.0 In-Patient Lab Orders – Lab Collect

Inpatient laboratory test orders for blood specimens to be drawn as part of a scheduled lab collection entered in the RPMS/Electronic Health Record (EHR) using the **Lab Collect** routine - means the phlebotomist from laboratory will draw the blood specimens from patients that are on Inpatient ward(s).

The orders for the In-Patient wards are entered into the computer by the physician, clerk, or nurse before the cut-off times to ensure the tests will be included on the COLLECTION LIST.

The defined collection times can be added to the PHLEBOTOMY ORDER CUT-OFF TIME field within the LABORATORY SITE (69.9) file.

Those orders are retained by the Laboratory software and combined when the collection list is created using the **Add to Collection List** option.

The lab can then print the collection list and labels by using the Print Collection List/Labels option for use during the draw.

Receipt of the specimens collected and cancellation of those not collected (with the appropriate comments) is acknowledged using **the Itemized Routine Lab Collection** or **Receipt of Routine Lab Collection from Wards** options to release the accessions for generation of work in the lab.

The labeled specimens are then distributed to each laboratory area for processing.

6.1 Modified Routines – Lab Collect

BLRRLEVN routine was written to correct errors using Lab Collect and Reference Laboratory orders

BLRSHPM routine was written to correct the error of incorrect DOB & GENDER printing on the Shipping Manifest for Reference Lab Orders.

6.2 Using Lab Collect

6.2.1 Print Lab Collection List:

Each morning the laboratory staff will collect blood specimens for testing from inhouse patients. The laboratory staff must build/create a COLLECTION LIST of tests ordered in Electronic Health Records for the inpatients. The RPMS Laboratory Package system will build the COLLECTION LIST that is organized and defined by ward location, patient name, and laboratory tests. Once the COLLECTIO LIST is created and completed, it will print the list and labels.

- 1. Select Laboratory Menu option.
- 2. Select Phlebotomy Menu option.
- 3. Select Add to collection list option.
- 4. Date and Time of collection: T@7:00AM//
 - a. Defaults to the next timed collection
- 5. Are you sure? No// YES
 - a. The collection list for, last timed draw, still exist, you must clear it before building a new list.
- 6. Are you ready to clear the current collection list and start a new one? No// YES
- 7. BUILDING THE LIST:
- 8. Once the Collection List is created, you will have two (2) options, select LIST.
- 9. No entry for "Starting Location:" prompt.
- 10. No entry for "Ending Location:" prompt.
- 11. **DEVICE**: printer for list
 - a. Once the List is printed, you will have two (2) options, again, select LABELS.
- 12. Print labels on LABLABEL.
- 13. No entry for "Station Location:" prompt.
- 14. No entry for "Ending Location:" prompt.
- 15. No entry for "Request Start Time:" prompt.
- 16. No entry for "Choose:" prompt.

RPMS Laboratory Menu

1 Phlebotomy menu . . . 2 Accessioning menu Process data in lab menu 3 Quality control menu 4 5 Results menu 10 Microbiology menu 11 Supervisor menu BLR IHS Lab Main Support Menu WARD Ward lab menu Select Laboratory DHCP Menu Option: 1 Phlebotomy menu Add tests to a given accession.

Addendum to User Manual August 2022

In-Patient Lab Orders - Lab Collect

```
Add tests to an already existing order number.
         Add to collection list
         Delete entire order or individual tests
         Itemized routine lab collection
         Lab orders by collection type
         Lab test order
         List of lab orders not collected
         List of orders not collected (Long form)
         Order/test status
          Print collection list/labels
         Print future collection labels
         Print single future collection label
         Receipt of routine lab collection from wards
         Test description information
         Ward lab menu
Select Phlebotomy menu Option: ADD TO COLLECTION LIST
Date and Time of collection: T@10:00AM// (JUL 29, 2022@10:00)
Are you sure? No// Y (Yes)
The collection list for 05/20/2022 10:30 still exists, you must clear it
before building a new list.
Are you ready to clear the current collection list and start a new one?
No// Y (Yes)
BUILDING THE LIST
3 specimens added to collection list.
1 LIST
2 LABELS
Choose: 1
Starting Location: <RETURN>
Ending location: <RETURN>
DEVICE:
1 LIST
2 LABELS
Choose: 2
Print labels on: LABLABEL// LABLABEL
Starting Location: <RETURN>
Ending location: <RETURN>
Requested Start Time: NOW// <RETURN>
1 LIST
2 LABELS
Choose: <RETURN>
Add tests to a given accession.
Add tests to an already existing order number.
Add to collection list
Delete entries order or individual tests.
Itemized routine lab collection
Lab orders by collection type
Lab test order
List of lab orders not collected
List of orders not collected (Long form)
Order/test status
Print collection list/labels
Print future collection labels
```

Addendum to User Manual August 2022

In-Patient Lab Orders - Lab Collect

```
Print single future collection label
Receipt of routine lab collection from wards
Test description information
Ward lab menu ...
```

Figure 6-1: Building the Collection List

6.2.2 Receiving AM Lab Collect Specimens:

After the phlebotomists have completed the blood sample collections, they return to the laboratory department to "RECEIVE" the specimens in the RPMS Laboratory Package system.

Laboratory orders for Lab Collect can be posted to the collection list that are not collected and can be held for collections at a later time or cancelled.

Laboratory orders for Lab Collect can be posted to the collection list that are COLLECTED but not received (date/time of actual of collection), will have to be received at the time the results for the requested tests are verified using the **EM** enter/verify/modify (manual) *or* **EA** Enter/verify data (auto instrument) resulting.

- 1. Select Laboratory Menu option.
- 2. Select Phlebotomy Menu option.
- 3. Select Receipt of routine lab collections from wards option.
 - a. Receipt of collection for each ward-location.
- 4. Select PATIENT LOCATION: ALL//
 - a. Type in first ward-location.
- 5. Enter Order Numbers *not* collected:
- 6. Enter Order #(s):
 - a. Enter the lab order number(s) NOT COLLECTED.
 - b. Now enter any orders that are not canceled but you do not want "collected", yet.
 - c. If all remaining orders are collected, skip this entry.
 - d. Any order #'s entered here will remain on collection list until 12 midnight.
 - e. The orders will not 'rollover' to the next day's collection list.
- 7. Enter Order #(s):
 - a. Type the order number(s) COLLECTED for *first* ward-location.
- 8. Enter Order #(s):

- 9. Ready to accept the rest of the orders? No//YES
- 10. Select PATIENT LOCATION: ALL//
 - a. Type in second ward-location.
- 11. Enter Order Numbers not collected:
- 12. Enter Order #(s):
 - a. Enter the lab order number(s) NOT COLLECTED.
 - b. Now enter any orders that are not canceled but you do not want "collected", yet.
 - c. If all remaining orders are collected, skip this entry.
 - d. Any order #'s entered here will remain on collection list until 12 midnight.
 - e. The orders will not 'rollover' to the next day's collection list.
- 13. Enter Order #(s):
 - a. Type the order number(s) COLLECTED for *second* ward-location.
- 14. Enter Order #(s):
- 15. Ready to accept the rest of the orders? No//YES
- 16. REPEAT for each 'LOCATION' or ward-location.

```
RPMS Laboratory Menu
   1
         Phlebotomy menu
                              . . .
   2
         Accessioning menu
         Process data in lab menu
   3
         Quality control menu
   4
  Results menu
10 Microbiology men
11 Supervisor menu
BLR IHS Lab Mai
         Microbiology menu
          IHS Lab Main Support Menu
   WARD Ward lab menu
Select Laboratory DHCP Menu Option: 1 Phlebotomy menu
          Add tests to a given accession.
          Add tests to an already existing order number.
          Add to collection list
          Delete entire order or individual tests
          Itemized routine lab collection
          Lab orders by collection type
          Lab test order
          List of lab orders not collected
          List of orders not collected (Long form)
          Order/test status
          Print collection list/labels
          Print future collection labels
          Print single future collection label
          Receipt of routine lab collection from wards
```

In-Patient Lab Orders - Lab Collect

```
Test description information
          Ward lab menu
Select Phlebotomy menu <TEST ACCOUNT> Option: REceipt of routine lab
collection from wards
Select PATIENT LOCATION: ALL// ICU
                                    {first ward-location}
Enter Order Numbers not collected:
Enter Order \#(s):
Now enter any orders that are not canceled but you don't want "collected",
vet.
If all remaining orders are collected, skip this entry.
Any order #'s entered here will remain on collection list until 12
midnight.
The orders will not 'rollover' to the next days collection list.
Enter Order #(s):
1179
1179 OK,
Enter Order #(s):
Ready to accept the rest of the orders? No// YES
Select PATIENT LOCATION: ALL// EAST RM 110
                                             {second ward-location}
You're doing the entire collection? No// YES (Yes)
Enter Order Numbers not collected:
Enter Order #(s):
Now enter any orders that are not canceled but you don't want "collected",
yet.
If all remaining orders are collected, skip this entry.
Any order #'s entered here will remain on collection list until 12
midnight.
The orders will not 'rollover' to the next days collection list.
Enter Order #(s):
1178
1178 OK,
Enter Order #(s):
Ready to accept the rest of the orders? No// YES
                                                   (Yes)
Select PATIENT LOCATION: ALL// {Repeats - different ward-location}
Ready to accept the rest of the orders? No//
                                             (No)
         Add tests to a given accession.
          Add tests to an already existing order number.
          Add to collection list
          Delete entire order or individual tests
         Itemized routine lab collection
         Lab orders by collection type
         Lab test order
          List of lab orders not collected
         List of orders not collected (Long form)
```

Addendum to User Manual August 2022

In-Patient Lab Orders - Lab Collect

Order/test status Print collection list/labels Print future collection labels Print single future collection label Receipt of routine lab collection from wards Test description information Ward lab menu ...

Figure 6-2: Receipt of routine lab collection from wards

7.0 IHS LAB TRANSACTION LOG – Add LOINC and IHS LOINC Codes to the File

Confirming all laboratory data passes to Patient Care Component (PCC), Laboratorians should review the data using the INQ Inquire into the IHS LAB Transaction Log. The INQ menu option is on the BLR IHS Lab Main Support Menu, and the BLR Menu is located on the Laboratory DHCP Menu.

In order for the PCC to accept LOINC DATA that is passed from the Laboratory Package, an entry must exist in the Site/Specimen for the result-able laboratory test that contains the result.

In order for the PCC to accept CPT DATA that is passed from the Laboratory Package, an entry must exist in the IHS LAB CPT CODE file for each billable lab test associated with the lab order. The entry must identify the associated panel or test.

Follow the steps below to review laboratory data using INQ:

```
LR Laboratory DHCP Menu ...
BLR IHS Lab Main Support Menu
INQ Inquire into the IHS LAB Transaction Log
```

INQ Inquire into the IHS LAB Transaction Log. (Example: Panel)

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: HE 22 18

1	HE 22 18	1312	(This is the Panel Test
T	11L 22 10	1312	

- 2 HE 22 18 1313 (This is the First Atomic Test in the Panel)
- 3 HE 22 18 1314 (This is the Second Atomic Test in the Panel)
- 4 HE 22 18 1315 (This is the Third Atomic Test in the Panel)
- 5 HE 22 18 1316 (This is the Fourth Atomic Test in the Panel)
- 6 HE 22 18 1317 (This is the Fifth Atomic Test in the Panel)

INQ Inquire into the IHS LAB Transaction Log. (Example: CBC PANEL)

Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: HE 22 18

7.1 Example: INQ Inquire into the IHS LAB Transaction Log

This example displays the lab data for the resulted accession number **HE 22 18**. Review the Status Flag as **Resulted**, Billing **CPT**-85025, **LOINC** codes per Atomic Lab Test, and the **IHS LOINC** code for the Panel Lab Test (IHS LOINC is the ORDER LOINC). LR Laboratory DHCP Menu ... IHS Lab Main Support Menu LS Link Transaction Processor Status 7421 Will restart the 7421 label routine if turned off. INQ Inquire into the IHS LAB Transaction Log CPT Enter/edit IHS Lab CPT File STP Stop/restart Lab to PCC Tran Stop/restart Lab to PCC Transaction Processor PAMG Edit IHS Lab Parameters and/or Mail Groups ... LVP IHS Lab Version & Patch Report Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: HE 22 18 1 HE 22 18 1312 2 HE 22 18 1313 3 HE 22 18 1314 4 HE 22 18 1315 5 HE 22 18 1316 Press <RETURN> to see more, '^' to exit this list, OR CHOOSE 1-5: 1 1312 DEVICE: Virtual IHS LAB TRANSACTION LOG LIST JUL 27, 2022 17:19 PAGE _____ SEQUENCE NUMBER: 1312 LRETLE: 2 PATIENT POINTER VALUE: 26737 PANEL/TEST POINTER: CBC W/Auto DIFF <-PANEL TEST LAB MODULE: GENERAL I/O CATEGORY: OUT PATIENT DUZ(2): 2906 STATUS FLAG: RESULTED ENTRY DATE/TIME: JUL 27, 2022@16:58:32 IEN OF V FILE ENTRY: 4295142 ASSOCIATED V FILE: V LAB CLINIC STOP CODE POINTER: LABORATORY SERVICES CPT LAB CODE POINTER: CBC W/AUTO DIFF BILLING CPT STRING:85025IIICLINICAL INDICATOR:139690015ORDER DATE:JUL 27, 2022@16:58:21ORDER SEQUENCE NUMBER:1 ORDER NUMBER: 1155 ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR ORDERING LOCATION POINTER: LAB HOSPITAL (LOC) COLLECTION DATE/TIME: JUL 27, 2022@16:58:21 ACCESSION NUMBER: HE 22 18 COLLECTION SAMPLE POINTER: BLOOD (EDTA) COMPLETE DATE: JUL 27, 2022@17:00:21 LOINC CODE: 57021 <- ORDER LOINC CODE PROVIDER NARRATIVE: Fatigue SNOMED: 139690015 ICD: R53.83 SITE/SPECIMEN POINTER: BLOOD Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1313 DEVICE: Virtual IHS LAB TRANSACTION LOG LIST JUL 27,2022 17:20 PAGE 1 _____ _ _ _ _ SEQUENCE NUMBER: 1313 LRFILE: 2 PATIENT POINTER VALUE: 26737 **PANEL/TEST POINTER: WBC. <- Lab** Test

Addendum to User ManualIHS LAB TRANSACTION LOG – Add LOINC and IHS LOINC Codes to the File August 2022

LAB MODULE: GENERAL DUZ(2): 2906 I/O CATEGORY: OUT PATIENTDOD (U), 2000STATUS FLAG: RESULTEDPARENT POINTER: 1312ENTRY DATE/TIME: JUL 27, 2022@16:58:32 ASSOCIATED V FILE: V LAB IEN OF V FILE ENTRY: 4295143 CLINIC STOP CODE POINTER: LABORATORY SERVICES ORDER DATE: JUL 27, 2022@16:58:21 ORDER SEQUENCE NUMBER: 1 ORDER NUMBER: 1155 ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR ORDERING LOCATION POINTER: LAB HOSPITAL (LOC) COLLECTION DATE/TIME: JUL 27, 2022@16:58:21 ACCESSION NUMBER: HE 22 18 COLLECTION SAMPLE POINTER: BLOOD (EDTA) COMPLETE DATE: JUL 27, 2022@17:00:21 LOINC CODE: 33765 <- RESULT LOINC CODE RESULT: 6.7 UNITS: 10*3/uL SITE/SPECIMEN POINTER: BLOOD VERIFIER POINTER: DEMO, TECH REFERENCE LOW: 4.3 REFERENCE HIGH: 10.8 Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1314 DEVICE: Virtual IHS LAB TRANSACTION LOG LIST JUL 27,2022 17:20 PAGE 1 _____ SEQUENCE NUMBER: 1314 LREILE: 2 PATIENT POINTER VALUE: 26737 PANEL/TEST POINTER: RBC. <- Lab Test DUZ(2): 2906 LAB MODULE: GENERAL I/O CATEGORY: OUT PATIENT PARENT POINTER: 1312 STATUS FLAG: RESULTED PARENT POINTER: JUL ENTRY DATE/TIME: JUL 27, 2022@16:58:32 IEN OF V FILE ENTRY: 4295144 ASSOCIATED V FILE: V LAB CLINIC STOP CODE POINTER: LABORATORY SERVICES ORDER DATE: JUL 27, 2022@16:58:21 ORDER SEQUENCE NUMBER: 1 ORDER NUMBER: 1155 ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR ORDERING LOCATION POINTER: LAB HOSPITAL (LOC) COLLECTION DATE/TIME: JUL 27, 2022@16:58:21 ACCESSION NUMBER: HE 22 18 COLLECTION SAMPLE POINTER: BLOOD (EDTA) COMPLETE DATE: JUL 27, 2022@17:00:21 LOINC CODE: 789 <- RESULT LOINC CODE RESULT: 5.03 UNITS: M/uL SITE/SPECIMEN POINTER: BLOOD VERIFIER POINTER: DEMO, TECH REFERENCE LOW: 4 REFERENCE HIGH: 5.4 Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1315 DEVICE: Virtual IHS LAB TRANSACTION LOG LIST JUL 27,2022 17:20 PAGE 1 _____ _____ SEOUENCE NUMBER: 1315 LRFILE: 2 PATIENT POINTER VALUE: 26737 PANEL/TEST POINTER: HGB. <- Lab Test LAB MODULE: GENERAL DUZ(2): 2906

Addendum to User ManualIHS LAB TRANSACTION LOG – Add LOINC and IHS LOINC Codes to the File August 2022

I/O CATEGORY: OUT PATIENT PARENT POINTER: 1312 STATUS FLAG: RESULTED ENTRY DATE/TIME: JUL 27, 2022@16:58:32 ASSOCIATED V FILE: V LAB IEN OF V FILE ENTRY: 4295145 CLINIC STOP CODE POINTER: LABORATORY SERVICES ORDER DATE: JUL 27, 2022@16:58:21 ORDER SEQUENCE NUMBER: 1 ORDER NUMBER: 1155 ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR ORDERING LOCATION POINTER: LAB HOSPITAL (LOC) COLLECTION DATE/TIME: JUL 27, 2022@16:58:21 ACCESSION NUMBER: HE 22 18 COLLECTION SAMPLE POINTER: BLOOD (EDTA) COMPLETE DATE: JUL 27, 2022@17:00:21 LOINC CODE: 30313 <- RESULT LOINC CODE UNITS: q/dL RESULT: 14.7 SITE/SPECIMEN POINTER: BLOOD VERIFIER POINTER: DEMO, TECH REFERENCE LOW: 13.5 REFERENCE HIGH: 18 Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1316 DEVICE: Virtual IHS LAB TRANSACTION LOG LIST JUL 27,2022 17:20 PAGE 1 _____ SEQUENCE NUMBER: 1316 LRFILE: 2 PATIENT POINTER VALUE: 26737 PANEL/TEST POINTER: HCT. <- Lab Test LAB MODULE: GENERAL DUZ(2): 2906 I/O CATEGORY: OUT PATIENT PARENT POINTER: 1312 STATUS FLAG: RESULTED ENTRY DATE/TIME: JUL 27, 2022@16:58:32 IEN OF V FILE ENTRY: 4295146 ASSOCIATED V FILE: V LAB CLINIC STOP CODE POINTER: LABORATORY SERVICES ORDER DATE: JUL 27, 2022@16:58:21 ORDER SEQUENCE NUMBER: 1 ORDER NUMBER: 1155 ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR ORDERING LOCATION POINTER: LAB HOSPITAL (LOC) COLLECTION DATE/TIME: JUL 27, 2022@16:58:21 ACCESSION NUMBER: HE 22 18 COLLECTION SAMPLE POINTER: BLOOD (EDTA) COMPLETE DATE: JUL 27, 2022@17:00:21 LOINC CODE: 20570 <- RESULT LOINC CODE RESULT: 45.6 RESULT N/A FLAG: H SITE/SPECIMEN POINTER: BLOOD UNITS: % VERIFIER POINTER: DEMO, TECH REFERENCE LOW: 35 REFERENCE HIGH: 45 Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER: 1317 DEVICE: Virtual IHS LAB TRANSACTION LOG LIST JUL 27,2022 17:20 PAGE 1 _____ SEQUENCE NUMBER: 1317 LRETLE: 2 PATIENT POINTER VALUE: 26737 PANEL/TEST POINTER: MCV. <- Lab Test LAB MODULE: GENERAL DUZ(2): 2906

Addendum to User ManualIHS LAB TRANSACTION LOG – Add LOINC and IHS LOINC Codes to the File August 2022

I/O CATEGORY: OUT PATIENT PARENT POINTER: 1312 STATUS FLAG: RESULTED ENTRY DATE/TIME: JUL 27, 2022@16:58:32 ASSOCIATED V FILE: V LAB IEN OF V FILE ENTRY: 4295147 CLINIC STOP CODE POINTER: LABORATORY SERVICES ORDER DATE: JUL 27, 2022@16:58:21 ORDER SEQUENCE NUMBER: 1 ORDER NUMBER: 1155 ORDERING PROVIDER POINTER: RADON, NICHOLAS M JR ORDERING LOCATION POINTER: LAB HOSPITAL (LOC) COLLECTION DATE/TIME: JUL 27, 2022@16:58:21 ACCESSION NUMBER: HE 22 18 COLLECTION SAMPLE POINTER: BLOOD (EDTA) COMPLETE DATE: JUL 27, 2022@17:00:21 LOINC CODE: 787 <- RESULT LOINC CODE RESULT: 91 UNITS: fL SITE/SPECIMEN POINTER: BLOOD VERIFIER POINTER: DEMO, TECH REFERENCE LOW: 80 REFERENCE HIGH: 100 Select IHS LAB TRANSACTION LOG SEQUENCE NUMBER:

Figure 7-1: IHS Lab Transaction Log List display

8.0 Modified Routines

Several routines have been modified in order to prevent errors and/or correct issues.

8.1 BLRRLEDI

Reference Lab - Fix Incorrect Patient Name & Chart Number.

8.2 LR70F1

Reference laboratory to retrieve the correct lab order number.

8.3 BLRSLTL1

Routine was modified so that the correct variable containing the patient's IEN is used to retrieve the I/O Category.

8.4 LRORDST

Routine was modified so that if the BLRLOG variable does not exist no error will occur and the event will be handled in the appropriate manner.

8.5 LR7OGMP

Routine was modified so that IHS UCUM file pointer is used appropriately.

8.6 BLR7OGMP

Routine modified so that UID is used to retrieve arrival time from the accession file.

8.7 LRXREF1

Routine modified so that missing data will be handled appropriately.

8.8 LRVER, LRVR, and LRVR1

Routines modified so that fatal error will not occur and messages to the user regarding the issue are appropriate.

8.9 BLRTN

Routine modified to use correct accession variable so as to correctly calculate result date/time.

8.10 LRLL2

Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.

8.11 LR70B69

Routine was modified so that if certain variables do not exist, they will no longer cause errors but will be handled in the appropriate manner.

8.12 LRLLP5

Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.

8.13 LRSPRT2

Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.

8.14 LRVRA

Routine was modified so that, if invoked, it will only display the last four (4) digits of the SSN.

9.0 REFERRAL PATIENT (#67) File New Cross Reference

A new cross-reference, the "E" Patient File Reference, has been added to the REFERRAL PATIENT (#67) file.

9.1 Data Dictionary Listing

The Data Dictionary listing is:

CROSS REFERENCE: 67^E

1)= S ^LRT("E",\$E(X,1,30),DA)="" 2)= K LRT("E",\$E(X,1,30),DA)

Glossary

Accession Area

A functional area or department in the laboratory where specific tests are performed.

Accession Number

A unique alpha-numeric (combination of letters and numbers) assigned to an individual patient specimen when it is received in the laboratory.

File

A set of related records or entries treated as a single unit.

FileMan

The database management system for the VA's VistA system and IHS' RPMS system.

HL7

Health Level Seven. An ANSI approved American National Standard for electronic data exchange in health care

ICD

International Classification of Diseases. It is formally known as the International Statistical Classification of Diseases and Related Health Problems, a medical classification list by the World Health Organization (WHO).

IEN

Internal Entry Number. A unique number used to identify an entry within a file.

IHS

Indian Health Service. An Operating Division (OPDIV) within the U.S. Department of Health and Human Services (HHS).

Menu

A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection.

MUMPS

MUMPS (Massachusetts General Hospital Utility Multi-Programming System) or alternatively M, is a general-purpose computer programming language that provides ACID (Atomic, Consistent, Isolated, and Durable) transaction processing.

Parameter

A name in a function or subroutine definition that is replaced by, or bound to, the corresponding actual argument when the function or subroutine is called.

RPC

Remote Procedure Call. A client/server system within Department of Veterans Affairs (VA) Veterans Health Information Systems and Technology Architecture (VistA) environment. It establishes a common and consistent foundation for client/server applications to communicate and exchange data with M Servers.

RPMS

Resource and Patient Management System. A suite of software applications used at IHS facilities to support administrative, clerical, and clinical functions.

SNOMED

Systematized Nomenclature of Medicine. A systematic, computerprocessable collection of medical terms, in human and veterinary medicine, to provide codes, terms, synonyms and definitions which cover anatomy, diseases, findings, procedures, microorganisms, substances, etc.

TaskMan

A Kernel sub module that allows tasks (e.g., VA FileMan prints and sorts) to run in the background.

VA

Veteran's Administration. United States Department of Veterans Affairs

VistA

The Veterans Health Information Systems and Technology Architecture. An enterprise-wide information system built around an Electronic Health Record (EHR), used throughout the VA medical system.

Acronym List

Acronym	Term Meaning
CPT	Current Procedural Terminology
EHR	Electronic Health Record
IHS	Indian Health Service
PCC	Patient Care Component
POC	Point of Care
RPMS	Resource and Patient Management System

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

Phone: (888) 830-7280 (toll free)

- Web: <u>https://www.ihs.gov/itsupport/</u>
- Email: itsupport@ihs.gov